

In the claims:

Kindly amend the claims as follows:

Claims 1-60 (Canceled).

Claim 61 (Currently Amended): A high impact strength, elastic laminate system for enhancing impact resistant properties of a laminate structure, said laminate system comprising:

a first outer layer;

a second outer layer;

at least two inner plies placed ~~parallel to one another~~ between the first and second outer layers;

at least one dissipating element placed between said inner plies adapted to dissipate and redirect randomly directed local loading applied to at least one of said two outer layers, to tensile loading directed in longitudinal direction (tensile) of said inner plies;

~~said at least one dissipating element arranged to occupy all the volume between said at least two inner plies;~~ and

a polymer matrix in between said first and second layers, and said first and second inner plies; ~~said polymer matrix absent between sections of said outer layers and said at least two inner plies;~~ said polymer matrix arranged to occupy all the volume not taken up by, and in between the said two ~~first~~ outer layers, ~~said second outer layer,~~ said at least two inner plies, and said at least one dissipating element.

Claim 62 (Original): The high impact strength, elastic laminate system as set forth in

claim 61, wherein additional layers of said first and second plies, said dissipating element, and said polymer matrix are placed between said first and second outer layers.

Claim 63 (Original): The high impact strength, elastic laminate system as set forth in claim 61, wherein said inner plies are reinforcement plies.

Claim 64 (Previously presented): The high impact strength, elastic laminate system as set forth in claim 63, wherein said reinforcement plies are made from a material selected from the group consisting of E-glass, R-glass, S2-glass, aramids, carbon, single fibre reinforcement, hybrid fibre reinforcement (natural or nonnatural), Quadriaxial, Unidirectional, Double-bias, Biaxial, Triaxial, Plain woven, and Woven rovings.

Claim 65 (Previously presented): The high impact strength, elastic laminate system as set forth in claim 64, wherein said dissipating element has a form selected from the group consisting of expanded metal, ornameash metal, rigidised metal, corrugated sheet, tubular, spherical, aluminum foam, and metallic foam-like structures.

Claim 66 (Previously presented): The high impact strength, elastic laminate system as set forth in claim 65, wherein said dissipating element is made from a material selected from the group consisting of aluminum alloys, steel alloys, zinc alloys, titanium alloys, copper alloys, magnesium alloys, nickel alloys, aluminum alloy matrix composites, thermoplastics, plastics, polymers, foams, and wood.

Claim 67 (Original): The high impact strength, elastic laminate system as set forth in claim 66, wherein said dissipating ply element comprises of at least two dissipating ply elements, said dissipating ply elements and said reinforcement plies are each arranged in an arrangement selected from the group consisting of unidirectional, cross-ply, symmetric, balanced, quasi-isotropic, and hybrid laminates.

Claim 68 (Previously presented): The high impact strength, elastic laminate system as set forth in claim 67, wherein said polymer matrix is made from a matrix selected from the group consisting of Vinylester, Epoxy, Phenolic, fire retardant, and adhesive.

Claim 69 (Previously presented): The high impact strength, elastic laminate system as set forth in claim 68, wherein said first and second outer layers are made from a material selected from the group consisting of aluminum alloys, steel alloys, zinc alloys, titanium alloys, copper alloys, magnesium alloys, nickel alloys, alloy matrix composites, wood, plastics, paper, thermoplastics, polymers, foams, and paints.

Claim 70 (Previously presented): The high impact strength, elastic laminate system as set forth in claim 69, further comprising at least one additional layer placed on any one of said outer layers, said additional layer being made from a material selected from the group consisting of foams, wood, honeycomb structures, thermoplastics, plastics, polymers, hybrid sandwiches, and paper.

Claim 71 (Original): The high impact strength, elastic laminate system as set forth in

claim 70 wherein said dissipating elements being adapted to create an equilibrium of dissipated loads in said laminate structure with a component of the outer loading being redistributed in a longitudinal direction to the main axis of said reinforcement plies.

Claim 72 (Original): The high impact strength, elastic laminate system as set forth in claim 71, wherein said laminate system is adapted to absorb impact energy from about 3770 to about 4000 J, and absorb and redirect forces from about 50 to about 190 kN.

Claim 73 (Original): The high impact strength, elastic laminate system as set forth in claim 72, wherein said laminate system has a density range from about 1300 to about 2250 kg/m³.

Claims 74-80 CANCELED